# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 98 | (216/46).CCLS. | USPAT; USOCR | OR | OFF | 2005/07/14 14:35 |
| S2 | 0 | ("10726992").PN. | USPAT; USOCR | OR | OFF | 2005/07/18 11:33 |
| S3 | 0 | ("10726992").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/07/14 14:46 |
| S4 | 0 | ("US4952275(A1)").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/07/14 14:46 |
| S5 | 0 | ("US4952275(A1)").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/14 14:47 |
| S6 | 4894960 | US4952275 (A1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/14 14:49 |
| S7 | 7 | "4952275" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/14 14:49 |
| S8 | 223 | (438/750).CCLS. | USPAT; USOCR | OR | OFF | 2005/07/15 08:14 |
| S9 | 7 | S8 AND (copper.AB.) | USPAT | OR | OFF | 2005/07/15 08:15 |
| S10 | 156 | (438/751).CCLS. | USPAT; USOCR | OR | OFF | 2005/07/15 08:18 |
| S11 | 166 | (438/751).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/15 08:19 |
| S12 | 9 | S11 AND (copper.AB.) | USPAT | OR | OFF | 2005/07/15 08:26 |
| S13 | 1125 | (252/79.1).CCLS. | USPAT; USOCR | OR | OFF | 2005/07/15 08:25 |
| S14 | 105 | S13 AND (copper.AB.) | USPAT | OR | OFF | 2005/07/15 08:26 |
| S15 | 1308 | (copper) SAME (etch$3) SAME (peroxide) SAME (acid) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/18 08:51 |
| S16 | 54 | (copper) SAME (etch$3) SAME (peroxide) SAME ("organic acid") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/18 10:12 |

| S20 | 329164 | (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) | USPAT | OR | OFF | 2005/07/27 09:41 |
|-----|--------|-----------|-------|----|-----|-----------|
| S21 | 2486 | (etch$3) and (Cu or copper) and (peroxide) and S20 | USPAT | OR | OFF | 2005/07/18 11:37 |
| S22 | 2032 | (etch$3) and (Cu or copper) and (peroxide) and S20 and (@pd<="20031203") | USPAT | OR | OFF | 2005/07/18 13:36 |
| S23 | 848 | (etch$3) same (Cu or copper) and (peroxide) and S20 and (@pd<="20031203") | USPAT | OR | OFF | 2005/07/18 11:50 |
| S25 | 250 | (etch$3) same (Cu or copper) and (peroxide) and S20 and (@pd<="20031203") and ("438"/$. CCLS. or 216//$.CCLS. or "510"/$. CCLS. or "451"/$.CCLS. or "51"/$. CCLS. or "252"/$.CCLS.) | USPAT | OR | OFF | 2005/07/18 11:59 |
| S27 | 303 | (etch$3) same (Cu or copper) and (peroxide) and S20 and (@pd<="20031203") and ("438"/$. CCLS. or "216"/$.CCLS. or "510"/$. CCLS. or "451"/$.CCLS. or "51"/$. CCLS. or "252"/$.CCLS.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/18 12:55 |
| S30 | 2 | S27 and (copper.TI.) and (etch.TI.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/18 13:12 |
| S31 | 9 | S27 and (copper.AB.) and (etch.AB.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/18 13:13 |
| S32 | 341548 | (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic or dimethylphosphinic or methanesulfonic or 1-hexanesulfonic or 1-heptanesulfonic or benzenesulfonic or benzenedisulfonic or tolulenesulfonic or naphthalenesulfonic or tropolone or benzoic or picric) | USPAT | OR | OFF | 2005/07/18 13:34 |
| S33 | 2091 | (etch$3) and (Cu or copper) and (peroxide) and S32 and (@pd<="20031203") | USPAT | OR | OFF | 2005/07/18 13:37 |

| S34 | 558 | (etch$3) and (Cu or copper) and (peroxide) and S32 and (@pd<="20031203")and ("438"/$.CCLS. or "216"/$.CCLS. or "510"/$.CCLS. or "451"/$.CCLS. or "51"/$.CCLS. or "252"/$.CCLS.) | USPAT | OR | OFF | 2005/07/18 14:59 |
|-----|-----|---|---|---|---|---|
| S35 | 46 | S34 and (copper.AB.) and (etch$3.AB.) | USPAT | OR | OFF | 2005/07/18 14:51 |
| S36 | 46 | S34 and (copper.AB.) and (etch$3.AB.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/18 14:51 |
| S37 | 1161 | ("copper oxide") same (etch$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/19 08:14 |
| S38 | 217 | ("copper oxide") same (etch$3) AND (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/20 11:36 |
| S39 | 75 | ("copper oxide") same (etch$3) AND (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) AND (surfactant) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/20 13:12 |
| S40 | 129 | ("copper oxide") same (etch$3) AND (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) AND (pH) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/20 13:14 |
| S41 | 92 | ("copper oxide") same (etch$3) AND (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) AND (pH) AND (@pd<="20031203") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/20 13:19 |

| S42 | 140 | ("copper oxide") same (etch$3) AND (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) AND (temperature)AND (@pd<="20031203") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/21 07:53 |
|-----|-----|---|---|---|---|---|
| S43 | 2 | ("5532094").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/20 14:05 |
| S44 | 45 | ("copper oxide") same (etch$3) AND (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) AND (temperature)AND (@pd<="20031203") AND (surfactant) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/21 07:54 |
| S45 | 658 | (scatterometry) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/22 07:27 |
| S46 | 283 | (scatterometry) AND (@pd<="20031203") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/28 10:25 |
| S47 | 4426 | (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) and (peroxide) and (copper) and (surfactant) | USPAT | OR | OFF | 2005/07/28 10:57 |

| S48 | 282 | (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) and (peroxide) and (copper) and (surfactant) and (etch$3) and (polish$3) | USPAT | OR | OFF | 2005/07/27 14:54 |
|---|---|---|---|---|---|---|
| S49 | 29 | (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) same (peroxide) same (surfactant) and (etch$3) and (polish$3) and (copper) | USPAT | OR | OFF | 2005/07/27 09:55 |
| S50 | 29 | ((formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) same (peroxide) same (surfactant)) and (etch$3) and (polish$3) and (copper) | USPAT | OR | OFF | 2005/07/27 10:08 |
| S51 | 6 | ((formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) same (peroxide) same (surfactant) same (pH)) and (etch$3) and (polish$3) and (copper) | USPAT | OR | OFF | 2005/07/27 10:47 |
| S52 | 8 | ((formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) same (peroxide) same (surfactant) same (pH)) and (etch$3) and (polish$3) | USPAT | OR | OFF | 2005/07/27 10:57 |

| S53 | 50 | ((formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) same (peroxide) same (water)) and (surfactant) and (pH) and (etch$3) and (polish$3) | USPAT | OR | OFF | 2005/07/28 10:28 |
|---|---|---|---|---|---|---|
| S54 | 16 | S53 and ("438"/$.ccls.) | USPAT | OR | OFF | 2005/07/27 13:25 |
| S55 | 50 | ((formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) same (peroxide) same (water)) and (surfactant) and (pH) and (etch$3) and (polish$3) | USPAT | OR | OFF | 2005/07/27 13:51 |
| S57 | 67796 | S55 and ("438"/$.ccls.) or ("252"/$. ccls.) or ("216"/$.ccls) | USPAT | OR | OFF | 2005/07/27 13:29 |
| S58 | 2 | ("6596638").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/27 13:52 |
| S59 | 6 | (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) and (peroxide) and (copper) and (surfactant) and (etch$3) and (polish $3) and (biocide) | USPAT | OR | OFF | 2005/07/27 14:54 |
| S76 | 75 | (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) and (peroxide) and (copper) and (surfactant) and (endpoint) | USPAT | OR | OFF | 2005/07/28 11:28 |

| S79 | 1 | (formic or acetic or propionic or butyric or pentanoic or hexanoic or heptanoic or octanoic or dichloroacetic or trichloroacetic or trifluoroacetic or prfluoroacetic or perfluorooctanoic or oxalic or malonic or succinic or fumaric or glutaric or itaconic or ethylenediaminetetraacetic or citric or ascorbic or maleic or malic) and (peroxide) and (copper) and (scatterometry) | USPAT | OR | OFF | 2005/07/28 11:33 |
|-----|-----|-----|-----|-----|-----|-----|
| S80 | 188 | (etching) and (scatterometry) | USPAT | OR | OFF | 2005/07/28 13:20 |
| S81 | 99 | (polish$3) and (scatterometry) | USPAT | OR | OFF | 2005/07/28 13:21 |
| S82 | 2 | ("6596638").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/29 10:16 |
| S83 | 2 | ("6596638").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/21 06:44 |
| S84 | 2 | ("6596638").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/31 15:02 |
| S85 | 45 | (laser and apparatus and processing and mechanism and pulse$2).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/06 08:20 |
| S86 | 113 | (216/46).CCLS. | USPAT; USOCR | OR | OFF | 2008/10/01 09:52 |
| S87 | 287 | (438/750).CCLS. | USPAT; USOCR | OR | OFF | 2008/10/01 09:52 |
| S88 | 1293 | (252/79.1).CCLS. | USPAT; USOCR | OR | OFF | 2008/10/01 09:52 |
| S89 | 581 | copper and (S86 or S87 or S88) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 09:52 |
| S90 | 1109 | (216/100).CCLS. | USPAT; USOCR | OR | OFF | 2008/10/01 09:53 |
| S91 | 916 | copper and (S86 or S87 or S88 or S90) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 09:54 |

| S92 | 288 | copper and (S86 or S87 or S88 or S90) and peroxide and acid | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 09:54 |
|-----|-----|------|------|------|------|------|
| S93 | 198 | copper and (S86 or S87 or S88 or S90) and peroxide and acid and first and second | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 09:55 |
| S94 | 115 | copper and (S86 or S87 or S88 or S90) and peroxide and acid and first and second and "pH" and organic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 09:55 |
| S95 | 44 | copper and (S86 or S87 or S88 or S90) and peroxide and acid and (first near2 (step or solution)) and second and "pH" and organic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 09:56 |
| S96 | 35 | copper and (S86 or S87 or S88 or S90) and peroxide and acid and (first near2 (step or solution)) and (second near2 (step or solution)) and "pH" and organic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 09:56 |
| S97 | 261 | (avanzino-s$.in.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 10:08 |
| S98 | 168 | (avanzino-s$.in.) and copper | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 10:09 |
| S99 | 79 | (avanzino-s$.in.) and copper.clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 10:09 |
| S100 | 0 | (avanzino-s$.in.) and (copper and hydroxide and organic).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 10:10 |

| S101 | 1 | (avanzino-s$.in.) and (copper and hydroxide).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 10:10 |
|------|---|---|---|---|---|---|
| S102 | 17 | ("5098533" \| "5100499" \| "5279702" \| "5318662" \| "5336363" \| "5968847" \| "6008140" \| "6010603" \| "6261953" \| "6355979" \| "6488862" \| "6489247" \| "6547843" \| "6589882" \| "6594024" \| "6596638" \| "6719920").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/10/01 10:11 |
| S103 | 2 | ("5098533" \| "5100499" \| "5279702" \| "5318662" \| "5336363" \| "5968847" \| "6008140" \| "6010603" \| "6261953" \| "6355979" \| "6488862" \| "6489247" \| "6547843" \| "6589882" \| "6594024" \| "6596638" \| "6719920").PN. and (first near2 (step or solution)) and (second near2 (step or solution)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/10/01 10:13 |
| S104 | 4 | (("5501893") or ("6197704")).PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/10/01 10:43 |

10/1/2008 1:20:09 PM
C:\ Documents and Settings\ mdahimene\ My Documents\ EAST\ Workspaces\ Apl 10726992b.wsp